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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY BOCKET NO.	CONFIRMATION NO.		
09/812,951 23850 7:	03/27/2001	Toshihito Yanashima	010284	5245		
ARMSTRONG, WESTERMAN & HATTORI, LLP 1725 K STREET, NW. SUITE 1000				EXAMINER LAM, THANH		
WASHINGTON, DC 20006			ART UNIT	PAPER NUMBER		
		2834				
			DATE MAILED: 05/22/2002			

Please find below and/or attached an Office communication concerning this application or proceeding.

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Application No.

09/812,951

Applicant(s)

Yanashima et al.

Examiner

Office Action Summary

Thanh Lam

Art Unit



		i nann Lam		2834		
	The MAILING DATE of this communication appears	on the cover sheet wil	th the corre	spondence address		
Period for Reply						
THE I - Extens mailing - If the - If NO - Failure	HORTENED STATUTORY PERIOD FOR REPLY IS SET MAILING DATE OF THIS COMMUNICATION. Issions of time may be available under the provisions of 37 CFR 1.136 (a). In grade of this communication. period for reply specified above is less than thirty (30) days, a reply within the period for reply within the set or extended period for reply will, by statute, cause the provision of the provision of the period for reply within the set or extended period for reply will, by statute, cause the period for reply will be period for reply will b	n no event, however, may a repl the statutory minimum of thirty and will expire SIX (6) MONTHS the application to become ABAN	oly be timely filed (30) days will be S from the mailin NDONED (35 U.S	d after SIX (6) MONTHS from the see considered timely. ing date of this communication. S.C. § 133).		
earned	eply received by the Office later than three months after the mailing date of different term adjustment. See 37 CFR 1.704(b).	this communication, even it turk	ely filed, may re	educe any		
Status 1)	Responsive to communication(s) filed on					
2a) 🗌		tion is non-final.				
3) 🗆	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.					
Disposi	ition of Claims					
4) 💢	Claim(s) <u>1-15</u>		is/ar€	e pending in the application.		
2	4a) Of the above, claim(s)		is/ar	e withdrawn from consideration.		
5) 🗌	Claim(s)			is/are allowed.		
6) X	Claim(s) <u>1-15</u>			is/are rejected.		
7) 🗆	Claim(s)			is/are objected to.		
8) 🗌	Claims	are subjec	ct to restric	ction and/or election requirement.		
	ation Papers					
9) 🗆	The specification is objected to by the Examiner.					
10)	The drawing(s) filed on is/are	a) accepted or b	رد) Objecte	ed to by the Examiner.		
	Applicant may not request that any objection to the d		•			
11)	The proposed drawing correction filed on		approved	b) \square disapproved by the Examiner.		
_	If approved, corrected drawings are required in reply	to this Office action.				
12)	The oath or declaration is objected to by the Exami	iner.				
	under 35 U.S.C. §§ 119 and 120					
	Acknowledgement is made of a claim for foreign p	riority under 35 U.S.C). § 119(a)	i-(d) or (f).		
	☑ All b)☐ Some* c)☐ None of:					
	1. X Certified copies of the priority documents hav	re been received.				
	2. Certified copies of the priority documents have					
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. 						
		,		, ,		
14)□ a)□						
a,∟ 15)□	The translation of the foreign language provisional Acknowledgement is made of a claim for domestic					
Attachm		phonity under 55 5.5	1.0. 33 12c	Janu/or (2).		
	otice of References Cited (PTO-892)	4) Interview Summary (P	2TO-413) Paper	No(s).		
	otice of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Informal Pate				
3) Inf	formation Disclosure Statement(s) (PTO-1449) Paper No(s).	6) Other:		,		

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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

3. Claims 1-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zigler in view of Bekey.

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Zigler discloses a sealed motor compressor comprising, in a sealed container, a compressing element and an electromotive element for driving the compressing element, wherein said electromotive element is fixed to said sealed container and comprises a stator (22) provided with a stator winding (11) and a rotor (21) which rotates in the stator, and said rotor comprises a squirrel-cage secondary conductor disposed in a peripheral portion of a rotor yoke.

Bekey discloses a rotor (28) and a permanent magnet (12) embedded in the rotor yoke (13).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to replace the rotor of Zigler with the rotor as taught by Bekey to improve the field excitation of the motor.

Regarding claim 2, the proposal in combination of Zigler and Bekey disclose the electromotive element comprises a single-phase bipolar constitution.

Regarding claim 3, the proposal in combination of Zigler and Bekey disclose the electromotive element is started by a system in which a startup capacitor (16) is used.

Regarding claim 4, the proposal in combination of Zigler and Bekey disclose the stator winding comprises a main winding and an auxiliary winding, and a winding ratio of the respective windings by effective winding number calculation is set to be in a range of 1.0 to 0.5.

Regarding claim 5, the proposal in combination of Zigler and Bekey disclose the squirrel-cage secondary conductor of the rotor comprises a skewed structure.

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Regarding claim 6, the proposal in combination of Zigler and Bekey disclose the permanent magnet is a rare earth magnet.

Regarding claim 7, the proposal in combination of Zigler and Bekey disclose the number of permanent magnets embedded in the rotor yoke is any number selected from the group consisting of two, four, six and eight.

Regarding claim 8, the proposal in combination of Zigler and Bekey disclose current-sensitive protection means for detecting a line current.

Regarding claim 9, Zigler disclose, a compressing element and an electromotive element for driving the compressing element, said electromotive element being driven by a three-phase power source, wherein said electromotive element is fixed to said sealed container and comprises a stator (22) provided with a stator winding (11) and a rotor (21) which rotates in the stator, and said rotor comprises a squirrel-cage secondary conductor disposed in a peripheral portion of a rotor yoke.

Bekey discloses a permanent magnet embedded rotor (28) and a permanent magnet (12) embedded in the rotor yoke (13).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to replace the rotor of Zigler with the rotor as taught by Bekey to improve the field excitation of the motor.

Regarding claim 10, the proposal in combination of Zigler and Bekey disclose the electromotive element comprises a three-phase bipolar constitution.

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Regarding claim 11, the proposal in combination of Zigler and Bekey disclose the squirrel-c ge secondary conductor of the rotor comprises a skewed structure, and a skew pitch is set to more than 0, and 1.5 slot pitches or less.

Regarding claim 12, the proposal in combination of Zigler and Bekey disclose the permane magnet is a rare earth magnet.

Regarding claim 13, the proposal in combination of Zigler and Bekey disclose the number of permanent magnets embedded in the rotor yoke is an even number.

Regarding claim 14, the proposal in combination of Zigler and Bekey disclose current-sensitive protection means for detecting line current.

Regarding claim 15, the proposal in combination of Zigler and Bekey disclose capability control is possible.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh Lam whose telephone number is (703) 308-7626. The fax phone number for this Group is (703) 305-3432.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0656.

Thanh Lam

Patent Examiner